



Safety Data Sheet

Report Date 08-Mar-15

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1. Identification

Product Name : ASSET RTU 6-20-5
Synonyms : None
Product Use : Ready-to-Use Fertilizer
Manufacturer/Supplier : Helena Chemical Company
Address : 225 Schilling Blvd. Collierville, TN 38017
General Information : 901-761-0050
Transportation Emergency Number : CHEMTREC:800-424-9300

2. Hazard Identification

Signal Word : Warning
Skin Irritation : May cause irritation
Eye Irritation : Eye contact results in severe eye irritation
Acute Toxicity Oral : May cause vomiting and abdominal cramps
Acute Toxicity Dermal : May be harmful by skin absorption

Hazard Categories : Eye irritation - 2B; Skin irritation - 3; Oral/Dermal/Inhalation Toxicity - 5/5/5

Hazard Statement : May be harmful if swallowed
May be harmful if inhaled
May be harmful in contact with skin
Causes mild skin irritation
Causes eye irritation

3. Composition / Information on Ingredients

Component	CAS Number	Weight %
Blend of plant nutrients derived from polyammonium phosphates, ammonium carboxylates, potassium phosphates, phosphoric acid, copper EDTA, manganese EDTA, zinc EDTA, iron HEDTA, sodium octaborate and sodium molybdate.	Proprietary	100.00
GUARANTEED ANALYSIS:		
Total Nitrogen (N):		6.00%
Available Phosphate (P ₂ O ₅):		20.00%
Soluble Potash (K ₂ O):		5.00%
Boron (B):		0.02%
Copper (Cu):		0.05%
Iron (Fe):		0.10%
Manganese (Mn):		0.05%
Molybdenum (Mo):		0.0005%
Zinc (Zn):		0.05%
NOTE: The chelating agent is EDTA (ethylenediaminetetraacetic acid) and HEDTA (hydroxyethylenediaminetetraacetic acid).		

4. First Aid Measures

Eye : Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing the eye. If irritation persists or develops, seek medical attention.

Skin : Remove contaminated clothing and wash skin with soap and water. If skin irritation occurs, get medical advice/attention.



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Inhalation : Move to fresh air. Call a poison control center or doctor if you feel unwell.
Ingestion : Rinse mouth with water. Call a poison control center or doctor if you feel unwell.
Indication of Immediate Medical Attention and Special Treatment Needed : Treat symptomatically.

5. Fire Fighting Measures

Extinguishing Media : Non-combustible product. Use extinguishing media suitable for underlying cause of fire.
Specific Hazards Arising from the Chemical : Generates toxic and irritating fumes under fire conditions.
Special Fire Fight Proc : Wear positive-pressure self-contained breathing apparatus and full protective clothing. Use water spray to keep fire-exposed containers cool.

6. Accidental Release Measures

Personal Precautions : Keep unprotected and unnecessary personnel out of spill area.
Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, impervious apron and footwear. Emergency shower and eyewash station should be available in work area. Use NIOSH-approved respirator for ammonia when needed.
Emergency Procedures : Contain spill. Do not allow spilled product to contaminate water supplies, lakes, streams, ponds, drains or soil.
Methods and Materials for Containment and Cleanup : If uncontaminated, collect and reuse as product. If contaminated, absorb with an inert material, collect and place in suitable chemical waste containers for proper disposal.

7. Handling and Storage

Precautions for Safe Handling : Keep package tightly closed and do not allow water to be introduced into container.
Conditions for Safe Storage : Store in original container only. Do not store near heat or open flame. The product will freeze at temperatures below 32 Degrees F. Thawing occurs readily at temperatures greater than 32 Degrees F.

8. Exposure Controls / Personal Protection

TLV/PEL : ACGIH TLV is 10 mg/m3.
Appropriate Engineering Controls : Local exhaust sufficient.
Personal Protective Equipment : Splashproof goggles or face shield, chemical-resistant gloves, impervious apron and footwear. Emergency shower and eyewash station should be available in work area. Use NIOSH-approved respirator for ammonia when needed.

9. Physical and Chemical Properties

Odor/Appearance : Clear green liquid, no odor expected.
Flash Point, °F : Not flammable
Boiling Point, °F : >212 Degrees F.
Melting Point(Freezing point), °C : <32 Degrees F.
Vapor Pressure, mm Hg @ 20 °C : 17.5 Torr @ 20 Degrees C.
Vapor Density : Not established
Solubility in Water : Dissolves



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Molecular Formula : Not applicable, formulated mixture.
Density, g/mL @ 25 °C : 1.290-1.310
Evaporation Rate(Butyl Acetate = 1) : No information found
Octanol/Water Partition Coefficient : Not established
pH : 6.0 - 7.0
Flammable Limits (approximate volume % in air) : No information found
Auto-ignition Temperature : Not applicable
Decomposition temperature : Not established

10. Stability and Reactivity

Reactivity : Normally stable.
Chemical Stability : Stable
Hazardous Decomposition Products : May produce ammonia gas and oxides of carbon under fire conditions.
Hazardous Polymerization : Will not occur
Conditions to Avoid : None currently known
Incompatible Materials : May react vigorously with acidic materials.

11. Toxicological Information

Acute Toxicity (Oral LD50) : No information found.
Acute Toxicity (Dermal LD50) : No information found.
Acute Toxicity Inhalation LC50 : No information found.
Likely Routes of Exposure : Skin and eyes.
Skin Irritation : May cause irritation.
Eye Irritation : Eye contact results in severe irritation.
Skin Sensitization : No hazard listed.
Carcinogenic : Not listed by IARC, NTP or OSHA.
Chronic Effects : None currently known.
Other Hazards : None currently known.

12. Ecological Information

Ecotoxicity : No information found
Persistence and Degradability : No information found
Bioaccumulative Potential : No information found
Mobility in Soil : No information found
Other Adverse Effects : No information found

13. Disposal Considerations

Waste Disposal Method : This material must be disposed of according to Federal, State or Local procedures under the Resource Conservation and Recovery Act.

14. Transport Information

UN Proper Shipping Name : Not regulated by DOT, IATA or IMDG.



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Transport Hazard Class : None
UN Identification Number : None
Packaging Group : None
Environmental Hazards : No information found
Transport in Bulk : No information found
Special Precautions for Transportation : No information found
Freight Classification : Fertilizing Compound, (Manufactured Fertilizer), Liquid, NOIBN (NMFC Item 68140, Sub 6, Class 70)

15. Regulatory Information

National Fire Protection Association Rating :

Health: 2 Fire: 0 Reactivity: 0
Rating Level: (4-Extreme, 3-High, 2-Moderate, 1-Slight, 0-Minimum)

S.A.R.A Title III Hazard Classification (Yes/No) :

Immediate(Acute) Health: Y
Delayed (Chronic) Health: N
Sudden Release of Pressure: N
Fire: N
Reactive: N

16. Other Information

Data of Preparation/Revision : 08-March-2015